Human; CASB619; cancer; autoimmune disease; immunogen; vaccine; epitope; ss. Human CASB619 protein coding sequence #1.

Location/Qualifiers
1.3342
/*tag~ a
/product- "CASB619"

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ATGGAGCTGGATGACAGTGCTGAGTCCACCGGGAACTGTACTTCGTCCAAGTGGGTT
                                                                                                                                                                                                                                                                                                                                                                         CCCCGGGGCGACTACATCGCCTTCAACACGGACGAATGCACAGCCACACTGATGTACGCC
                                                                                                                                                                                                                                                                                                                                                                               Score 3259, 6;
                                                                                                                                                                  G; 743
                                                                                                                                                                                        0; Mismatches
                                                            Vinals
                                                                                                                                                                                    Pred. No.
                                                (SMIK ) SMITHKLINE BEECHAM BIOLOGICALS
                                                                                                                                                                  Sequence 3280 BP; 810 A; 930 C; 797
                                                                                                          Claim 13; Page 53-54; 68pp; English
                                                            Coche T,
                                                                                                                                                                              Ouery Match
Best Local Similarity 99.8%;
Matches 3273; Conservative
                                  99GB-0007113
99GB-0022858
                        2000WO-EP02478
                                                             'n,
                                                             Cassart
                                                                       2000-664923/64
                                                                             P-PSDB; AAB26179.
                        20-MAR-2000;
                                        25-SEP-1999;
                                   26-MAR-1999;
                                                             Bruck CEM,
              05-OCT-2000
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GTCAACCTGAAGCAATCTGGCACCGTTAACTTCGAATACTACTATCCAGACTCCAGCATC 1318 1261 1321 1438 1381 1378 1258 1078 (1138 1081 1198 1141 1201 841 838 1018 196 781 868 958 901 718 778 199 721 598 g δy g ΟŊ g δ g QΣ g g g ò · 5 QQ ò 셤 δ g Q Dp οy a Dρ δ 염 QY Q g ò The present sequence comprises the human CASB619 coding sequence. This protein is thought to be specifically or over-expressed in tumour cells, and so can be used as a target for antigen-specific immune responses which can cause destruction of the tumour cell. In addition, the protein and gene can be used in cancer diagnosis, in the treatment of autoimmune diseases and in vaccines against cancer and autoimmune disease. The invention provides a number of epitopes derived from the protein which can be used as immunogens. 240 357 300 180 297 118 CGCATACCCCGGCTGTGGCGGCTGCTGTGGGCTGGGACCGCCTTCCAGGTGACCCAG 177 237 AIGGCIGAGCCIGGGCACACCACCATCTCTCCGCCAGAGTCAGGGGAAGAACTGAGAGG 117 Gaps 9 TGTGACAGCACGGGTTCCAGGTGGAGGGTCGCCGTGCCGCATACCCCGGGCCTGTGCACC AGCCTGCCTGACCCGTCAAGGGCACCGAGTGCTCCTTCTCCTGCACGCCGGGGAGTTT AGCCTGCCTGACCCCGTCAAGGGCACCGAGTGCTCCTTCTCCTGCAACGCCGGGGAGTTT Novel CASB619 polypeptides useful for diagnosing, and as vaccines prophylactic and therapeutic treatment of, cancers, particularly ovarian and colon carcinoma, and autoimmune diseases DB 21; Length 3280; ;; 4; Indels T; 0 other; Bassols Бе

1620 1260 CCTCCGCAGTCGGTGATGGCAGACACAGAGAATAAAGAGGTGGCCAGAATCACATTTGTC 1557 1257 1077 1137 TCAAATAAAGGAGAAACTTCTTGCCACCAGTGTGACCCTGACAAATACTCAGAGAAAGGA 1017 900 840 780 837 897 099 ACCAACACTCCTGTGGAGGCTGGAAAGGTTCCAAAGGCAAACAGTCCTATACCTACATC **TTTGAATACAAATGGTGGAACACGCTGCCCACAAACATGGAAACGACCGTTCTCAGTGGG** GCCTGCGATGCCAACGGAGAGACACAACTCATGTACAAATGGGCCAAGGCGGAAAATCTGT 1021 GCCTGCGATGCCAACGGAGAGACACACTCATGTACAAATGGGCCAAGCCGAAAATTGT **AGCGAGGACCTTGAGGGGGCAGTGAAGCTGCCTGCCTCTGGTGTAAAAACCCACTGCCCA** CCCTGCAACCCAGGCTTCTTCAAAACCAACAACAGCACCTGCCAGCCCTGCCATATGGT GGCACGTATGCAGACAAGCAGGCTCCTCTTTCTGCAAACTTTGCCCAGCCAACTCTAAT ATGAAGACCACAGAGAAAGGATGGGAATTCCACAGTGTGGAGCTAAATCGAGGCAATAAT 1441 1558 1498 g q oγ δ δ

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420 537 480 597 540

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	CAGGAACCTGCCACTCC 191	CTACAATGATTGCACCTTC 198 GCTTTGGCAAACACCGTC 209 IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	GGGCTACGACGTCACGTGAC 221 GCACCGACAATGTCACTGAC 216 GCACCGACAATGTCACTGAC 216 TCACAGCCTACGTCTGCCAG 227 TCACAGCCTACGTCTGCCAG 222 GGGTTTCCTCACAGCCTGTC 233 	CACTCTGGATGGAATCACCTCC 2397	ACGTGCTCAGATGGGACC 257	
	TTCTTGTCCTGCTGGTTACTATTTGACCGF	IGGTCCAGGACCAAGAACAACAAGATCCACTCTCTCACCTCTCTCT		AGCCTTGCTGATCGACTTATTGGGGTGACAACAGATATG AGCTTGCTGACTTTTGGGTTGALLIIIIIIIIIIIIIIIIIIIIIIIIIII	CACAGAAACTGTCCCTGGAAGTTTGCTGCTGCTGCTGCTGCTGCTGCTGCAAAACTGTCCCTGGAAGTTTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT	GTGGCTGACTACCATGCTATCGTCAGCAGCTGTGTGGCTGGC
1621 1 1738 C 1681 C 1798 1	58 01 18 18 61 78	1921 2038 1981 2098 2158	101 218 218 161 278 221	2338 2281 2398 2341 2458 2401	518 461 578 523	2638 2581 2698 2641 2758
do cy do do	oy oy oy	6 6 6 6 6	6 6 6 6 6		Oy Oy Oy	0 <i>y</i> 0 <i>y</i> 0 <i>y</i>

3056 3000 2880 CCTGCCTCCTCCACCTTGCATAGCACCTTTGCAAGCCTGCGGCGATTTGGGTGCCAGCATC 3176 ATCITITITIATAGAGTACCCAAACCCTCCTITCTGCTTGCCTCAAACCTGCCAAATATA 3296 3061 3181 3241 3057 3001 3117 3237 3297 2701 g g δ a ŏ g δý g οy g οy ò ò පු Ω g ŏ g

The present sequence comprises the human CASB619 protein sequence. This protein is thought to be specifically or over-expressed in tumour cells, and so can be used as a target for antigen-specific immune responses which can cause destruction of the tumour cell. In addition, the protein and gene can be used in cancer diagnosis, in the treatment of autoimmune diseases and in vaccines against cancer and autoimmune disease. The invention provides a number of epitopes derived from the protein which can be used as immunogens. Novel CASB619 polypeptides useful for diagnosing, and as vaccines for prophylactic and therapeutic treatment of, cancers, particularly ovarian and colon carcinoma, and autoimmune diseases Human; CASB619; cancer; autoimmune disease; immunogen; vaccine; YC; Vinals De Bassols (SMIK) SMITHKLINE BEECHAM BIOLOGICALS. Claim 4; Page 54-56; 68pp; English Coche T, 20-MAR-2000; 2000WO-EP02478 99GB-0007113 99GB-0022858 (first entry) Human CASB619 protein #1. Bruck CEM, Cassart J, WPI; 2000-664923/64. N-PSDB; AAA95442. 1013 AA; WO200058460-A2 Homo sapiens. 26-MAR-1999; 25-SEP-1999; 12-FEB-2001 05-OCT-2000 Sequence AAB26179 AAB26179; epitope.

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standard; Protein; 1013 AA

RESULT. 2 AAB26179 ID AAE 361

361

SNKGETSCHQCDPDKYSEKGSSSCNVRPACTDKDYFYTHTACDANGETOLMYKWAKPKIC

FEYKWWNTLPINMETTVLSGINFEYKGMTGWEVAGDHIYTAAGASDNDFMILTLVVPGFR 480

SEDLEGAVKLPASGVKTHCPPCNPGFFKTNNSTCQPCPYGSYSNGSDCTRCPAGTEPAVG

540 540 601

199 199 721 721 78.1

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541 IEENTITSFTWAFORTTFHEASRKYTNDVAKIYSINVTNVMNGVASYCRPCALEASDVGS

PPOSYWADTENKEVARITFVFETLCSVNCELYFMVGVNSRTNTPVETWKGSKGKQSYTYI

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421

SRNTPTRTFNYNFSALANTVTLAGGPSFTSKGLKYFHHFTLSLCGNQGRKMSVCTDNVTD 720

SCISCPAGYIIDRDSGTCHSCPPNIILKAHOPYGVQACVPCGPGTKNNKIHSLCYNDCTF

LRIPEGESGFSKSITAYVCQAVIIPPEVTGYKAGVSSQPVSLADRLIGVTTDMTLDGITS 780

CDGCNFHFLWESAAACPLCSVADYHAIVSSCVAGIQKTTYVWREPKLCSGGISLPEQRVT 900

841

PABLEHLESLGIPDVIFFYRSNDVTQSCSSGRSTTIRVRCSPQKTVPGSLLLPGTCSDGT

840 840

99 9

900 ICKTIDFWLKVGISAGTCTAILLTVLTCYFWKKNQKLEYKYSKLVMNATLKDCDLPAADS CAIMEGEDVEDDLIFTSKNHSLGR 901 901 961 961 ò 엄 ŏ a

> VLYWRTTAFSVWTKVPKPVLVRNIAITGVAYTSECFPCKPGTYADKQGSSFCKLCPANSY 300

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GIRFDEWDELPHGFASLSANMELDDSAAESTGNCTSSKWVPRGDYIAFNTDECTATLMYA 180 VNLKQSGTVNFEYYYPDSSIIFEFFVQNDQCQPNADDSRWMKTTEKGWEFHSVELNRGNN 240

61

61 CDSTGSRWRVAVPHTPGLCTSLPDPVKGTECSFSCNAGEFLDMKDQSCKPCAEGRYSLGT 120

Gaps

; 0

Indels

Length 1013;

21; ŝ

В

Score 5376; DB; pred. No. 0; 1; Mismatches

97.68; 99.48;

Best Local Similarity 99.4 Matches 978; Conservative

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Query Match

Release #1.0, Version #1.25

	COMPUTER: IBM PC compatible COMPUTER: IBM PC compatible OPERATING SYSTEM: PC-DOS/MS-DOS SOFTWARE: Patentin Release #1.0, Version #1. CURRENT APPLICATION DATA: APPLICATION NUMBER: US/08/190,029A FILING DATE: 28-FEB-1994	PRIOR APPLICATION DATA: PRIOR APPLICATION NUMBER: PCT/GB92/01389 APPLICATION NUMBER: 27-JUL-1992	PRIOR APPLICATION DATA: APPLICATION NUMBER: GB 9202401.7	PRIOR APPLICATION DATA: PRIOR APPLICATION NAMBER: GB 9116325.3	APPLICATION NOTICE STATEMENT TARGET AND TARGET OF THE STATEMENT OF THE STATEMENT ON STATEMENT OF THE STATEME	NAME: JOHN J. MCDONNELL	REGISTRATION NUMBER: 20,747 REPERENCE/DOCKET NUMBER: 94,062	TELECOMMUNICATION INFORMATION:		INFORMATION FOR SEQ ID NO: LU:	SEQUENCE CHARACIERISTICS:	TYPE: amino acid	TOPOLOGY: linear	; MOLECOLE 112: F-1	0.8%; Score 8; L	Query Marca Similarity 100.0%; Pred. No. 10;	8; Conservative 0;	C 6 80 VTI.AGGPS 687		Db 110 VTLAGGPS 117		PRSULT 2	US-08-462-695-10	; Sequence 10, Application 05/001011	(ATION:	APPLICANT: EDWARDS, Richard Mark	, APPLICANT: BAWDEN, Lindsey	TITLE OF INVENTION: 12	CORRESPONDENCE ADDRESS:	ADDRESSEE: BANNER & ALLEGRETII, LID.		STATE: ILLINOIS COUNTRY: U.S.A.
	Sequence 19, Appl Sequence 19, Appl Sequence 122, App Sequence 176, App Sequence 533, Ap	Sequence 5030, Ar. Sequence 174, Appl Sequence 15, Appl Sequence 27, Appl	32,	Sequence 29, Appl Sequence 30, Appl	, i, i	Sequence b, Appli	4, 4,	48	Sequence 4, Appliant Sequence 13, Appl	13,	Sequence 1, Appli	Ä	Sequence 1, Appli	i ~	4	Sequence 2, Appli	7,5	Sequence 211, Ap	٠.	m c	Sequence 2, Appl	24,	26,	Sequence 2, Appli	Seguence 30, April	7	13	Sequence 3/3, APP	375,	Sequence 13, Appl		
•	1 US-08-318-947A-19 2 US-08-795-303-19 4 US-09-071-035-222 4 US-09-071-035-176 4 US-09-071-035-176	4 US-09-134-001C-5038 4 US-09-071-035-174 4 US-09-215-252-15	1 US-08-118-270-27 5 PCT-US93-08528-27 47-08-068-0518-32	2 US-09-000 022-29 2 US-08-793-410-29 2 US-08-793-410-30	1 US-07-867-105B-1	2 US-08-793-410-6	2 US-08-793-410-7 4 US-09-184-826-2	4 US-09-080-205-4	1 US-08-356-180-4	4 US-09-006-353A-13	4 US-09-157-603-1	4 US-09-587-436-1	4 US-08-527-1031-1	2 4 US-09-576-160B-2	3 1 US-08-229-418-2 3 2 HS-08-932-761A-2	3 4 US-09-307-912-2	3 5 PCT-US95-04464-2 4 4 11S-09-068-569-2	4 03	9 4 US-09-134-001C-4/60	11 1 US=08=413=731 30	55 4 US-08-928-383B-2	55 4 US-08-928-383B-23	65 4 US-08-928-3838-24	65 4 US-09-272-496-2	66 1 US-08-554-612C-50	69 1 US-08-416-756A-2	69 4 US-08-880-865-2	2 03	84 3 US-08-871-355A-375	184 4 US-09-201-945-3/5 189 2 US-08-605-106-13		ALIGNMENTS
	6 0.6 282 1 6 0.6 282 2 6 0.6 282 2 6 0.6 282 4	305 305 305 314 314	0.6 317	0.6 324	0.6 327	0.6 328 0.6 328	0.6 328	0.6 328	0.6 333	0.6 349	0.6 349	0.6 350	0.6	9.0	0.6 35	9.0	0.6 35	9.6	0.6	9.6	9.0	0.6	9.0	9.0	9.0	9.0	9.0	9 K	9.0	9 9	•	
	101 102 103 104	105 106 107	108 109 110	111	113	115	117	119	120	122	123	124	126	127	129	130	132	133	134	136	137	138	140	141	142	143	145	146	147	140 149	DST .	

Gaps ö

Length 349; 0; Indels

ZIP: 60606
ZIP: 60606
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
MEDIUM TYPE: BM PC compatible
COMPUTER: IBM PC compatible
COMPUTER: BM PC compatible
COMPUTER: PatentIn Release #1.0, Version #1.25
SOFTWARE: PatentIn Release #1.0, Version #1.25
GURENT APPLICATION NUMBER: US/08/462,695
APPLICATION NUMBER: DW/1995
CLASSIFICATION NUMBER: 08/190,029
RRIOR APPLICATION NUMBER: 08/190,029
FRILNG DATE: 28-FEB-1994
PRIOR APPLICATION NUMBER: OFT/GB92/01389
FRILNG DATE: 27-UUL-1992
PRIOR APPLICATION NUMBER: GB 9202401.7 IER & ALLEGRETTI, LTD. PACKER DRIVE, SUITE 3000 DS, Richard Mark N, Lindsey N: IGF-II ANALOGUES ES: 12 on US/08462695 RESS: COUNTRY: U.S.A.

RESULT 1
US-08-190-029A-10
Sequence 10, Application US/08190029A
Sequence 10, Application US/08190029A
Sequence 10, Application US/08190029A
Sequence 10, S736363
GENERAL INFORMATION:
TITLE OF INVENTION: IGF-II ANALOGUES
TITLE OF INVENTION: IGF-II ANALOGUES
NUMBER OF SEQUENCES: 12
NUMBER OF SEQUENCES: 12
STREET: 10 S. WACKER PRIVE, SUITE 3000
CITY: CHICAGO
CITY: U.S.A.
COUNTRY: U.S.A.
SAGOG
STATE: 161NOIS
COUNTRY: U.S.A.
SAGOG
STATE: 56506
STAT

Human; tumour necrosis factor receptor; TR13; TR14; infection; cancer; autoimmune disease; allergy; inflammatory disease; graft rejection; apoptosis; cardiovascular disease; aneurysm; ds. Human TR13 receptor coding Sequence SEQ ID NO: 39. RESULT 1 AAF28030 ID AAF28030 standard; DNA; 3334 BP. 99US-0144087. 99US-0149450. 99US-0149712. 99US-0153089. (HUMA-) HUMAN GENOME SCI INC. 14-JUL-2000; 2000WO-US19343. 08-MAY-2001 (first entry) WO200105834-A1. Homo sapiens. 16-JUL-1999; 18-AUG-1999; 20-AUG-1999; 10-SEP-1999; 25-JAN-2001. AAF28030;

Ruben SM, Ni J, Young PE;

WPI; 2001-112682/12.

```
Nucleic acids encoding 2 human tumor necrosis factor receptor polypeptides ((TR13) and (TR14)), useful for the prevention, diagnosis and treatment of, e.g. cancers, acquired immune deficiency syndrome and hypolidrotic ectodermal dysplasia
                                                                                                                                                                  English
                                                                                                                                                                  394-398; 418pp;
                                                                                                                                                                         4;
                                                                                                                                                                     Claim
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The present invention provides the protein and coding sequences of the human tumour necrosis factor receptors TR13 and TR14. These sequences are useful in the diagnosis and treatment of many diseases, including cancer, autoimmune diseases, cardiovascular disorders, allergies, eneurodegenerative diseases, graft rejection, inflammation, aneurysms and infections

T; 0 other; A; 952 C; 811 G; 751 820 Sequence 3334 BP;

ö 780 780 720 720 540 540 900 099 9 420 480 480 600 300 360 360 420 240 240 300 180 180 Gaps 9 9 TTTGAGTTTTTCGTTCAGAATGACCAGTGCCAGTCCAATGCAGATGACTCCAGGTGGATG AAGACCACAGAGAAAGGATGGGAATTCCACAGTGTGGAGCTAAATCGAGGCAATAATGTC AACCTGAAGCAATCTGGCACCGTTAACTTCGAATACTACTATCCAGACTCCAGCATCATC ATTCGGTTTGATGAGTGGGATGAGCTGCCCCATGGCTTTGCCAGCCTCTCAGCCAACATG GAGCTGGATGACAGTGCTGCTGAGTCCACCGGGAACTGTACTTCGTCCAAGTGGGTTCCC CGGGGCGACTACATCGCCTTCAACACGGACGAATGCACAGCCACACTGATGTACGCCGTC ACGGGACCGGAGCTTCACGCCTGCAAAGAGTCTGAGTACCACTATGAGTACACGGCGTGT GCTGAGCCTGGGCACAGCCACCATCTCTCCGCCAGAGTCAGGGGAAGAACTGAGAGGGGCGC ATACCCCGGCTGTGGCGGCTGCTCTGGGCTGGGACCGCCTTCCAGGTGACCCAGGGA GACAGCACGGGTTCCAGGTGGAGGGTCGCCGTGCCGCATACCCCGGGCCTGTGCACCAGC 22; Length 3334; ö Indels ö DB Query Match
Best Local Similarity 100.0%; Pred. No. 0;
Matches 3334; Conservative 0; Mismatches 601 661 661 721 541 601 721 361 421 481 541 181 241 241 301 301 361 421 181 121 61 121 181 g 8 g g ŏ ò φ g QQ ò g δ . G δ οy QΩ g ò Q Ω g δ δ ò 셤 ò

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1860 1440 1320 1380 1140 1020 960 960 900 900 840 TGCACCTCTTGTCCTGCTGGTTACTATTGACCGAGATTCAGGAACCTGCCACTCCTGC GAGGAGAACACTACCACGAGCTTCACCTGGGCCTTCCAGAGGACCACTTTTCATGAGGCA AGCAGGAAGTACACCAATGACGTTGCCAAGATCTACTCCATCAATGTCACCAATGTTATG AATGGCGTGGCCTCCTACTGCCGTCCCTGTGCACAGCCTCTGATGTGGGGCTCCTCC TGCGATGCCAACGGAGAGACACACTCATGTACAAATGGGCCCAAGCCGAAAATCTGTAGC GAGGACCITGAGGGGGCAGTGAAGCTGCCTGCTGTGTGAAGACCCACTGCCCACCC TGCAACCCAGGCTTCTTCAAAACCAACAACAGCACCTGCCAGCCCTGCCCATATGGTTCC TACTCCAATGGCTCAGACTGTACCCGCTGCCCTGCAGGGACTGAACCTGCTGGGGATTT GAATACAAATGGTGGAACACGCTGCCCACAAACATGGAAACGACGGTTCTCAGTGGGATG AACTTCGAGTACAAGGGCATGACAGGCTGGGAGGTGGCTGGTGATCACATTTACACAGCT 1441 1621 1681 1741 1381 1501 1561 1561 1621 1681 1441 1501 1141 1201 1201 1261 1261 1321 1321 1381 1081 1081 1141 1021 1021 781 841 841 901 901 961 196 781 g g a δy ŏ g ò g g g οy g ò 셤 δ g ôχ ò g g δ g δ ò g δ g δ δ 셤 g ò g ò ò

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1920 1980 1980 2040 2100 2100 2160	2220 2220 2280 2280 2340 2400	2460 2520 2520 2520 2580 2580 2640 2700	2760 2760 2820 2820 2880 2880 2940 3000
	2161 AGTCTCTGTGGAAACCAGGGTAGAAATGTCTGTGTGCACCGACAATGTCACTGACCTC 2	2401 GCTGAACTTTTCCACCTGGAGTCCTTGGGAATACCGGACGTGATCTTTTATAGGTCC 2401 GCTGAACTTTTCACCTGGAGTCCTTGGGAATACCGGACGTGATCTTTTATAGGTCC 2401 GCTGAACTTTTCCACCTGGAGTACCTTGGGAATACCGGACGTGATCTTTTATAGGTCC 2461 AATGATGTGACCTCGCACTCTTGGGAGATCCACCACCCGCGTCAGGTGCC 2461 AATGATGTGACCCAGCTCTGCAGTTCTGGGAGATCACCACCACCCGCGTCAGGTGCTC 251 CACAGAAACTGTCCTGCAGTTTGCTGCTGCAGGAACGTGCTCAGGTGCTCCTGT 2521 CCACAGAAACTGCTCCTGGAGTTTGCTGCTGCCAGGAACGTGCTCAGTGTGTTTTTTTT	2701 IGGCGAGAACCCAAGCTATGCTCTGGTGGCATTCTCTGCCTGAGCAGAGAGTCACCATC [
90 OX	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0.0 0.0 0.0 0.0 0.0 0.0

2941 GCCATCATGGAAGGCGAGGATGTAGAGGACGACCTCATCTTTACCAGCAAGAATCACTCT 3000 3001 TTGGGAAGATCAATTTACCTCTGAAGAAGAACTCCTGATGGATTTGACTCAAGAGGACTCCTGATGGATTTGACTCAGTGCGC 3060
TIGGGAAGATCAAATCATTACCTCCAAGAGGACTCCTGATGGATTTGACTCAGTGCGG
TGAAGACATCCTCAGGAGGCCCAGACATGGACCTGTGAGAGGCACTGCCTGC
reascarcercascascascarscarscarscarscascascascascascascascascascascascascas
CCTCCTCACCTTGCATAGCACCTTTGCAAGCCTGCGGCGATTTGGGTGCCAGCATCCTGC
CCTCCTCACCTTGCATAGCACCTTTGCAAGCCTGCGGCGATTTGGGTGCCAGCATCTGC
3181 AACACCCACTGCTGGAAATCTCTTCATTGTGGCCTTATCAGATGTTTGAATTTCAGATGT
AACACCCACTGCTGGAAATCTTTTCAGTGTTTTTTTTTT
3241 TITITATAGAGIACCAAACCICCTITCIGCIIGCCICAAACCIGCCAAATATACCCA 3300
TITITIATAGAGTACCCAAACCCTCCTTTCTGCTTGCCTCAAACCTGCCAAATATACCCA
3301 CACTITGTTGTAAATTAAAAAAAAAAAAAAA 3334
3301 CACTITGITHIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII

The present invention provides the protein and coding sequences of the unan tumour necrosis factor receptors TR13 and TR14. These sequences are useful in the diagnosis and treatment of many diseases, including cancer, autoimmune diseases, cardiovascular disorders, allergies, neurodegenerative diseases, graft rejection, inflammation, aneurysms and Nucleic acids encoding 2 human timor necrosis factor receptor polypeptides ((TR13) and (TR14)), useful for the prevention, diagnosis and treatment of, e.g. cancers, acquired immune deficiency syndrome and hypohidrotic ectodermal dysplasia. Human; tumour necrosis factor receptor; TR13; TR14; infection; cancer; autoimmune disease; allergy; inflammatory disease; graft rejection; apoptosis; cardiovascular disease; aneurysm. Human TR13 receptor protein SEQ ID NO: 40. Claim 40; Page 398-401; 418pp; English 99US-0149450. 99US-0149712. 99US-0153089. (HUMA-) HUMAN GENOME SCI INC. 99US-0144087 14-JUL-2000; 2000WO-US19343 Ni J, Young PE; WPI; 2001-112682/12 1001 AA; WO200105834-A1. 18-AUG-1999; 20-AUG-1999; 10-SEP-1999; Homo sapiens Infections. Ruben SM, Sequence

840

PAELFHLESLGI PDVI FFYRSNDVTQSCSSGRSTTIRVRCSPQKTVPGSLLLPGTCSDGT CDGCNFHFLWESAAACPLCSVADYHAIVSSCVAĞIQKTTYVWREPKLCSGGISLPEQRVT CDGCNFHFLWESAAACPLCSVADYHAIVSSCVAGIQKTTYVWREPKLCSGGISLPEQRVT

PAELPHLESLGIPDVIPPYRSNDVTQSCSSGRSTTIRVRCSPQXTVPGSLLLPGTCSDGT

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900

900

ICKTIDFWLKVGISAGTCTAILLTVLTCYFWKKNQKLEYKYSKLVMNATLKDCDLPAADS 960

ICKTIDFWLKVGISAGTCTAILLTVITCYFWKKNQKLEYKYSKLVMNATLKDCDLPAADS

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LRIPEGESGFSKSITAYVCQAVIIPPEVTGYKAGVSSQPVSLADRLIGVTTDMTLDGITS 780

LRIPEGESGRSKSITAYVCQAVIIPPEVTGYKAGVSSQPVSLADRLIGVTTDMTLDGITS

SRNTPTRIFWYNFSALANTVTLAGGPSFISKGLKYFHHFTLSLGGQGRKASVCTDNVTD

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721 721 781 781 841 841 901 106

SRNTPTRTFNYNFSALANTVTLAGGPSFTSKGLKYPHHFTLSLCGNGGRKMSVCTDNVTD

601 SCTSCPAGYYIDRDSGTCHSCPPNTILKAHQPYGVQACVPCGPGTKNNKIHSLCYNDCTP

720

540 540

PPQSVMADTENKEVARITPVFETLCSVNCELYPMVGVNSRTNTPVETWKGSKGKQSYTYI

PPOSVMADTENKEVARITFVPETLCSVNCELYFWGVNSRTNTPVETWKGSKGKQSYTY1 I EENTTISPIWAPORITHEASRKYINDVAKIYSINVINVMNGVASYCRPCALEASDVGS

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FEYKWWNTLPTNMETTVLSGINPEYKGMTGWEVAGDHIYTAAGASDNDFMILTLVVPGFR

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SEDLEGAVKL PASGVKTHCPPCNPGFPKTNNSTCOPCPYGSYSNGSDCTRCPAGTEPAVG 361 SEDLEGAVKLPASGVKTHCPPCNPGFFKTNNSTCQPCPYGSYSNGSDCTRCPAGTEPAVG

361

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AAB35333 standard; Protein; 1001

AAB35333;

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